

Patent claims

1. Pyromechanical disconnecting device, in particular for switching off the battery in a motor vehicle, with a housing (1), in which a current conductor rail is arranged, constructed as able to be cut through by a disconnecting tool (6) at a disconnecting point, wherein the disconnecting tool (6) can be accelerated by the propellants of an ignition element (5) and the ignition element (5) has electrical connecting pins (9), is inserted into a receiving space (7) in the housing (1) and is supported on a supporting floor (2) of this receiving space (7) and the supporting floor (2) has through bores (3) for the connecting pins (9), characterised in that an elastic sealing element (4) is arranged between the ignition element (5) and the supporting floor (2).
2. Disconnecting device according to claim 1, characterised in that the sealing element (4) is an O-ring.
3. Disconnecting device according to claim 1, characterised in that the sealing element (4) is a flat seal which is arranged on the supporting floor (2) and through which the connecting pins (9) project.
4. Disconnecting device according to claim 1, characterised in that the sealing element (4) is an elastic compensation element injected on to the supporting floor (2).

5. Disconnecting device according to one of claims 1 to 4, characterised in that the housing (1) consists of a plastics material with which glass fibres or carbon fibres are mixed for mechanical stiffening.